

PROJECTED	FIG. 1
BY	CLASS SUBJECT
DRAFTSMAN	

CCGGGGGAGGCTCTTAGGATGTTGTGCTCCGCGGGGCTCAGACGAAATCTTCTGTGAATGGAAG
AAATGCTTCCAAGCAAACAGCCACTACCAGAACAACCTGAGAAAGAGGCCAGAGCGCGAGTTCTC
AAACCCTGATTTTCGAGGAGCCGGAGGGGGATATTGGAGAGAAGGTATTTCCAGTCACGCGCAG
TAACAGACCAGCCAAGGACCAGGACTGGAGTTCTGTTCTACAACGGTGGAACAGTGAACGGTCT
CCAAAGAGATGGAGTACGACGCTTACAACGACTCCGGCATCTATGATGATGAGTACTCTGATGG
CTTTGGCTACTTTGTGGACTTGGAGGAGGCGAGTCCGTGGGAGGCCAAGGTGGCCCCGGTCTTC
CTGGTGGTGATCTACAGCTTGGTGTGCTTCCTCGGTCTCCTAGGCAACGGCCTGGTGATTGTCA
TCGCCACCTTCAAGATGAAGAAGACCGTGAACACTGTGTGGTTTGTCAACCTGGCTGTGGCCGA
CTTCCTGTTCAACATCTTTTTGCCGATGCACATCACCTACGCGGCCATGGACTACCACTGGGTG
TTCGGGAAGGCCATGTGCAAGATCAGCAACTTCTTGCTCAGCCACAACATGTACACCAGCGTCT
TCCTGCTGACTGTCATCAGCTTTGACCGCTGCATCTCCGTGCTGCTCCCCGTCTGGTCCCAGAA
CCACCGCAGCATCCGCCTGGCCTACATGACCTGCTCGGCCGTCTGGGTCTTCTTCTTG
AGCTCCCCGTCCCTTGTCTTCCGGGACACCGCCAACATTTCATGGGAAGATAACCTGCTTCAACA
ACTTCAGCTTGGCCGCGCCTGAGTCTCCCCACATCCCGCCCACTCGCAAGTAGTTTCCACAGG
GTACAGCAGACACGTGGCGGTCACTGTCACCCGCTTCCTTTGCGGCTTCCTGATCCCCGTCTTC
ATCATCACGGCCTGCTACCTTACCATCGTCTTCAAGCTGCAGCGCAACCGCCTGGCCAAGAACA
AGAAGCCCTTCAAGATCATCATCACCATCATCATCACCTTCTTCCTCTGCTGGTGCCCTACCA
CACCTCTACCTGCTGGAGCTCCACCACACAGCTGTGCCAAGCTCTGTCTTCAGCCTGGGGCTA
CCCCTGGCCACGGCCGTCGCCATCGCCAACAGCTGCATGAACCCCATTCGTACGTCTTCATGG
GCCACGACTTCAGAAAATTCAAGGTGGCCCTCTTCTCCCGCCTGGCCAACGCCCTGAGTGAGGA
CACAGGCCCTCCTCCTACCCCAGTCACAGGAGCTTCACCAAGATGTCGTCTTTGAATGAGAAG
GCTTCGGTGAATGAGAAGGAGACCAGTACCCTCTGAACCTCACCTGGGAATGTCCCCCAAAGGT
GCCACGGCCCAGGGACGCCTAGGGACTTGCTCTCCGGAAGTGGGAGACATGCCGGGAGCCTTTGG
GAATGCTCCAACGCCCACTGAATTTTGCACAAGGCGGCTCATGTTTTAAGTGGGGTTCCCAAGT
GTGGACACTCTTCCAGTAAAATGGCAGGCAAGCAACCCGAGCTTCTACAACAGGAGCAGGGGAC
CGACTGTGACTGACTCAGAAAAGGGAGCATTCTGAAGCCAAGACTTGAGCTGTGACCAACATA
CAGGCCAACATACAGATGTCGCCGTGCATGCCCTGAACATGCTGCGCAGTTTTCTGTGGGTGAG
GAAGTTACCGCAAACCCATTGCAGACCTGTTATGGCAACATGACAGTCAAACCAACAAAGCCCA
ATACACCCCAACATCCTCCAAGACCTTGACTTTGGATTTTCAGAAGAACGGGGGGTGGGGGGAAC
GAGGACCTGAGGGTTAATTTTCGAGCTTGGCGAAGCC (SEQ ID NO:1)

FIGURE 1

BY	CLASS	SUBCLASS
DRAFTSMAN		

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underlined = deleted in targeting construct

[] = sequence flanking Neo insert in targeting construct

CCGGGGGAGGCTCTTAGGATGTTGTGCTCCGCGGGGCTCAGACGAAATCTTCTGTGAATG
GAAGAAATGCTTCCAAGCAAACAGCCACTACCAGAACAACCTGAGAAAGAGGCCAGAGCGC
GAGTTCTCAAACCCCTGATTTTCGCAGGAGCCGGAGGGGGATATTGGAGAGAAGGTATTTCC
AGTCACGCGCAGTAACAGACCAGCCAAGGACCAGGACTGGAGTTCTGTTCTACAACGGTG
GAACAGTGAACGGTCTCCAAAG [AGATGGAGTACGACGCTTACAACGACTCCGGCATCTA
TGATGATGAGTACTCTGATGGCTTTGGCTACTTTGTGGACTTGGAGGAGGCGAGTCCGTG
GGAGGCCAAGGTGGCCCCGGTCTTCCCTGGTGGTGATCTACAGCTTGGTGTGCTTCCTCGG
TC] TCCTAGGCAACGGCCTGGTGATTGTATCGCCACCTTCAAGATGAAGAAGACCGTGA
ACACTGTGTGGTTTGTCAACCTGGCTGTGGCCGACTTCCTGTTCAACATCTTTTGGCGA
TGCACATCACCTACGCGGCCATGGACTACCACTGGGTG [TTCGGGAAGGCCATGTGCAAG
ATCAGCAACTTCTTGCTCAGCCACAACATGTACACCAGCGTCTTCCCTGCTGACTGTCATC
AGCTTTGACCGCTGCATCTCCGTGCTGCTCCCCGTCTGGTCCCAGAACCACCGCAGCATC
CGCTTGGCCTACATGACCTGCTCGGCCGTCTGGGTCTTCTTCTTGAGCTCCCCG
TCCCTTGTCTTCCGGGACACCGCCAACATTCATGGGAAGATAACCTGCTTCAACAACCTC
AGCTTGGCCGCGCCTGAGTCTTCCCAACATCCCGCCCACTCGCAAGTAGTTTCCACAGGG
TACAGCAGACACGTGGCGGTCACGTGTCACCCGCTTCCCTTGGCGGCTTCCTGATCCCCGTC
TTCATCATCACGGCCTGCTACCTTACCATCGTCTTCAAGCTGCAGCGCAACCGCCTGGCC
AAGAACAAGAAGCCCTTCAAGATCATCATCACCATCATCATCACCTTCTTCTCTGCTGG
TGCCCCCTACCACACCCTCTACCTGCTGGAGCTCCACCACACAGCTGTGCCAAGCTCTGTC
TTCAGCCTGGGGCTACCCCTGGCCACGGCCGTCGCCATCGCCAACAGCTGCATGAACCCC
ATTCTGTACGTCTTCATGGGCCACGACTTCAGAAAATTCAAGGTGGCCCTCTTCTCCCGC
CTGGCCAACGCCCTGAGTGAGGACACAGGCCC] CTCCTCCTACCCAGTCACAGGAGCTT
CACCAAGATGTCGTCTTTGAATGAGAAGGCTTCGGTGAATGAGAAGGAGACCAGTACCCCT
CTGAACCTCACCTGGGAATGTCCCCCAAAGGTGCCACGGCCCAGGGACGCCTAGGGACTT
GCTTCCGGAAGTGGGAGACATGCCGGGAGCCTTTGGGAATGCTCCAACGCCCACTGAATT
TTGCACAAGGCGGCTCATGTTTAAAGTGGGGTTCCCAAGTGTGGACACTCTTCCAGTAAA
ATGGCAGGCAAGCAACCCGAGCTTCTACAACAGGAGCAGGGGACCGACTGTGACTGACTC
AGAAAAGGGAGCATTTCTGAAGCCAAGACTTGAGCTGTGACCAACATAACAGGCCAACATA
CACGATGTCGCCGTGCATGCCCTGAACATGCTGCGCAGTTTTCGTGGGTGAGGAAGTTAC
CGCAAACCCATTGCAGACCTGTTATGGCAACATGACAGTCAAACCAACAAAGCCCAATAC
ACCCCAACATCCTCCAAGACCTTGACTTTGGATTTTCAAGAAGCGGGGGTGGGGGGAAC
GAGGACCTGAGGGTTAATTTTCGAGCTTGGCGAAGCC

FIGURE 2A

PROJECT	CLASS	SUBCLASS
BY		
DRAFTSMAN		

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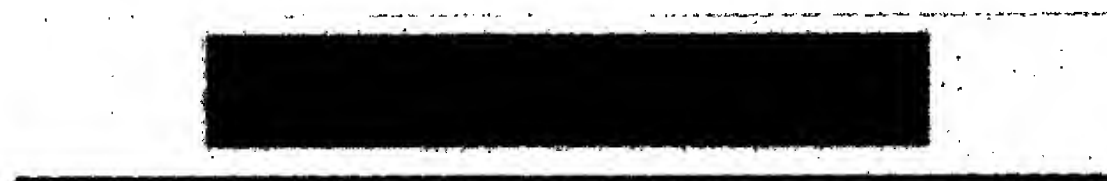
Gene Sequence Structure *

422 bp

Sequence Deleted

576 bp

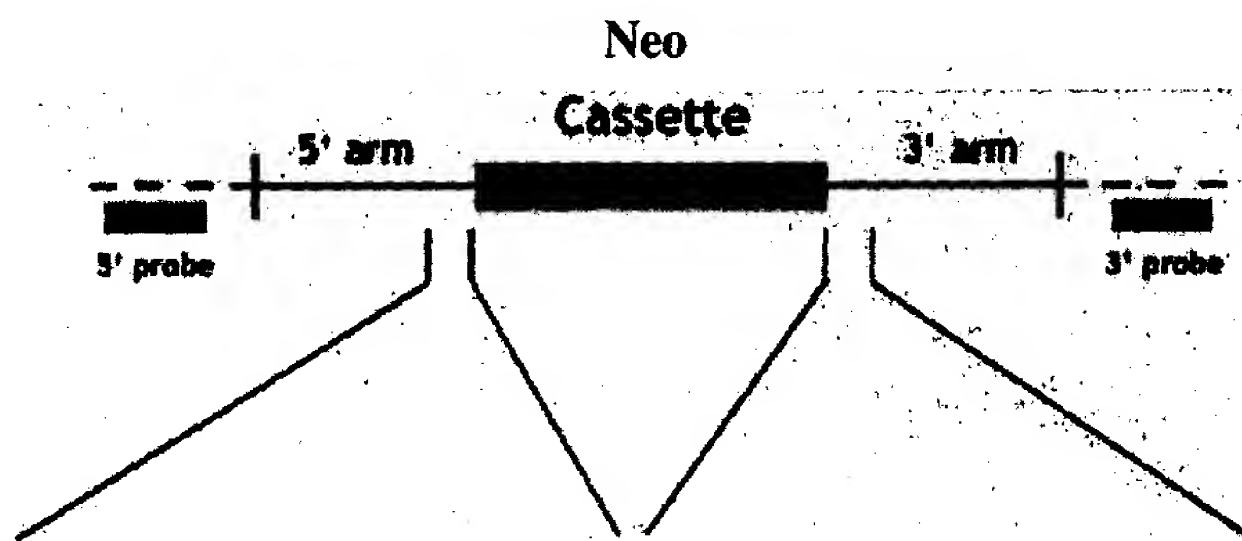
Size of full-length
cDNA: 1892 bp



Targeting Vector* (genomic sequence)

Construct Number: 993

Arm Length:
5': 2.3 kb
3': 1.9 kb



—— Targeting Vector
--- Endogenous Locus

* Not drawn to scale

5' > CCACAGAGGTCCTCAGCCTGT
GACCCGTGCTTCCCTCACAGAGAT
GGAGTACGACGCTTACAACGACTC
CGGCATCTATGATGATGAGTACTC
TGATGGCTTTGGCTACTTTGTGGA
CTTGAGGAGGCGAGTCCGTGGGA
GGCCAAGGTGGCCCCGGTCTTCCT
GGTGGTGATCTACAGCTTGGTGTG
CTTCCTCGGTC<3'
(SEQ ID NO:2)

5' > TTCGGAAGGCCATGTGCAAG
ATCAGCAACTTCTTGCTCAGCCAC
AACATGTACACCAGCGTCTTCCTG
CTGACTGTCATCAGCTTTGACCGC
TGCATCTCCGTGCTGCTCCCCGTC
TGGTCCCAGAACCACCGCAGCATC
CGCCTGGCCTACATGACCTGCTCG
GCCGTCTGGGTCTGGCTTTCTTC
TTGAGCTCCCC<3'
(SEQ ID NO:3)

FIGURE 2B